

Receiving Report

APR 06 2016

Date: 1

Batch No: 31868 134800

Supplier: AVIA

Dart P/O: 31868

Packing Slip: Yes / No
 Invoice: Yes / No
 Receipt: Cash Cr /
 New Supplier Yes No /

Release Note Attached: Yes / No N/A
 Waybill Attached: Yes / No
 Shipment Complete: Yes No / N/A
 QC18 Inspection N/A /
 Work Order N/A /

Discrepancies

| Part Number | Description | Quantity Ordered | Quantity Rec'd | Quantity Short | Quantity Inspected | Quantity Rejected | Comment / NCR Number |
|-------------|-------------|------------------|----------------|----------------|--------------------|-------------------|----------------------|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Initials of Receiver QC12 Sy

Production/Admin:
 Date
 Received/Costing
 Initial

Location



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO1868

Purchase Order Date 3/30/2016

PO Print Date 3/30/2016

Page Number 1 of 2

Order From :
AVIALL
PO BOX 842275

VU-AVI003

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

DALLAS, TX 75284-2275
USA

E-MAILED

MAR 30 2016

Contact Name
Vendor Phone 905-676-1695

Ship To Contact
Ship To Phone
Ship Via: FedEx Overnight collect
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB EXW - (Ex Works)

| Line Nbr | Reference Vendor Part Number Line Comments Delivery Comments | Description/ Mfg ID | Req Date/ Taxable Promise Date | CD | Req Qty/ Unit of Measure | PO Unit Price | Extended Price |
|-------------|---|-------------------------------|--------------------------------------|----|--------------------------------|---------------|----------------|
| 1 | 156001-8D-0102 AS PER DWG E4670 REV. A B143896 | Hose Assembly | 4/4/2016 Yes 4/4/2016 | | 5.00 Each | \$91.69 | \$458.45 |
| Line Total: | | | | | | | \$458.45 |
| 2 | CR3242-4-2 | RIVET | 4/4/2016 Yes 4/4/2016 | | 100.00 Each | \$0.30 | \$29.83 |
| Line Total: | | | | | | | \$29.83 |
| 3 | 71400-11 | PRO-SEAL PS890-2 PINT SIZE | 4/4/2016 Yes 4/4/2016 | | 12.00 Each 16/4/16 SW | \$64.05 | \$768.60 |

PO Instructions: Fedex Acc#151793240

Note:

3/30/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PC31868**

Purchase Order Date 3/30/2016

PO Print Date 3/30/2016

Page Number 2 of 2

Order From :

VU-AVI003

AVIALL
PO BOX 842275

DALLAS, TX 75284-2275
USA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905-676-1695

Ship To Contact

Ship To Phone

Ship Via: FedEx Overnight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

USD

FOB

EXW - (Ex Works)

Line Total: \$768.60

Deliver To: ANDY

| | | | | | | |
|---|----------|--------------------------------|----------|------|--------|--------|
| 4 | 71401-45 | PROCUREMENT QUALITY CLAUSES | 4/4/2016 | 1.00 | \$0.00 | \$0.00 |
|---|----------|--------------------------------|----------|------|--------|--------|

No

4/4/2016

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A015 SHELF LIFE CONTROLLED MATERIAL, 60%

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS

FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A043 RETENTION OF QUALITY DOCUMENT

Line Total: \$0.00

PO Total: \$1,256.88

PO Instructions: Fedex Acc#151793240

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 3/30/2016

Chantal Lavoie

From: lmccllland@aviall.com on behalf of toronto@aviall.com
Sent: Tuesday, March 29, 2016 2:51 PM
To: Chantal Lavoie
Subject: Re: quote - DART AEROSPACE - Quote 4500552941

Hi Chantal - see below

Thank you
Laura

Aviall Toronto
7425 Tranmere Drive
Unit 2
Mississauga, Ontario
L5S 1L4

Phone: 905-676-1695
Fax: 905-676-9046
Email: Toronto@aviall.com

Subject to Prior Sales
Subject to MFG price changes

Any Aviall quote, acknowledgement or acceptance of your purchase order is made subject to Aviall's Terms and Conditions of Sale. You agree that Aviall's Terms and Conditions of Sale replace and supersede your proposed terms and conditions for all purposes and your acceptance of such terms is evidenced by you continuing to go forward with this order after receipt of this stamped notice. Go to www.aviall.com and click on Terms and Conditions for a copy of such terms.

| | |
|----------|---|
| From: | Chantal Lavoie <clavoie@dartaero.com> |
| To: | Toronto Inbound Queue/Aviall <toronto@aviall.com> |
| Date: | 03/29/2016 02:36 PM |
| Subject: | quote - DART AEROSPACE |

Good afternoon,
Please advise price and delivery on item.

| | | | |
|-------------------------------------|---|------------|-------------------------|
| Pro-seal PS890-2 pint size x 12 kit | PS890B2PT | 64.05 each | stock in Dallas |
| Cr3242-4-2 x 50 | CR3242-4-02 | pkg 100 | 29.83/100 stock Toronto |
| Ms51861-45c x 10 | nothing on this, would you like me to source? | | |

Thanks
Chantal

Chantal Lavoie
Purchasing Coordinator

| | | | | | |
|------------------------------------|---------------------|-----|----------|--------------|--------------|
| TACK CLOTHS | PBE020001S | 0 | 12 | Bertrand | 9.60\$ |
| ANTI-SEIZE marine grade | 10045k25 | | 1 | Mc Master | 17.47\$ |
| Norton Champagne | 31626 | 100 | 1 | UAP | 59.60/pk 100 |
| paint gun HVLP w/remov. Nozzle tip | 65220 | | | UAP | 179.98 |
| EAR PLUGS | S-15344 | 3 | | ULINE | 36.00\$ |
| PRIMER DESOTO | 515.349 | 4 | | Air Dynamics | 415.00\$ |
| HARDER PPG DELFLEET | F3210 | 6 | | Auto Parts | 124.49 |
| REDUCER PPG DELFLEET | F3390 | 1 | | Auto Parts | 99.27 |
| BLUE PPG PAINT DELFLEET | FBC915914 | 4 | | MAX AUTO | |
| FLATTENING AGENT GAL | F3118 | 4 | | Auto Parts | 304.95 |
| CLEAR PPG DELFLEET | F3921 | 5 | | Auto Parts | 295.38 |
| PRIMER FILLER | DUPLE3404S-USGAL | 1 | | Bertrand | 228.51\$ |
| ACTIVATOR /REDUCER slow dry | LE1185S | 1 | | Bertrand | 105.03 |
| ACTIVATOR/REDUCER fast dry | LE 1175S | 1 | | Bertrand | 105.03\$ |
| Gravel Guard Black | AW4715 | 4 | 12 | Bertrand | 11.30\$ |
| 3M green masking tape 1/2" | MMM26346 | 6 | 12 | Bertrand | 3.178 |
| 3M green masking tape 2" | MMM26340 | 6 | 12 | Bertrand | 7.95 |
| CLEAR IMRON 2.1 | DUPHGC-1333 | 1 | 2 | Bertrand | 93.38 |
| ACTIVATOR IMRON 2.1 GALLON | DUPFG-1333-USGL | 1 | 2 | Bertrand | 245.7 |
| THINNER IMRON 2.1 | DUPT1021-USGL | 1 | 2 | Bertrand | 39.13 |
| ACCELARATOR IMRON 2.1 | DUPVG-805-USPT | 1 | 2 | Bertrand | 44.17 |
| S HOOKS | 9381T24 25PER PK | | 20 | McMaster | 4.06 |
| PUSH IN ROUND PLUG BLACK | 9688K122 100 PER PK | | 4 | Mc Master | 6.26 |
| DP-460 SCOTCH WELD | 7467A26 | 2 | 8 12 | Mc Master | 22.61 |
| AN814-6D | paint fuel canister | | 12 | Aviall | |
| AN814-8D | paint fuel canister | | 12 | Aviall | |
| Powder coat glossy black | PS111N9 | | | Protech | 296.25\$ |
| Powder coat gray | PS311A13 | | | Protech | 260.00\$ |
| ALCOHOL 99% ISOPROPYL | SCNSAY426 | 4 | 16 | BERTRAND | 28.62 |
| PRO-SEAL | PS890-B2 (PINT) | 6 | 12 | AVIALL | 68.64 |
| LID KIT DEVILBISS | GFC-404-K2 | 4 | | BERTRAND | 7.85 |
| Assembly kit rivet nut 10-32 | 94675A069 | 2 | | McMaster | 99.74 |
| Assembly kit rivet nut 1/4-20 | 94675A071 | 2 | | McMaster | 99.74 |
| Sherwin-Williams hardener | CM05710814 | 4 | | AVIALL | 48.65\$ |
| sand paper wet/dry | MIR21-104-080 | 1 | PK OF 25 | Bertrand | 18.14 |
| sand paper wet/dry | MIR21-104-320 | 1 | PK OF 25 | Bertrand | 34.28 |
| sand paper wet/dry | MMM02022 P1200 | 1 | PK OF 50 | Bertrand | 0.88 |

8872 K63.

Chantal Lavoie

From: lmcclelland@aviall.com on behalf of toronto@aviall.com
Sent: Wednesday, March 30, 2016 9:47 AM
To: Chantal Lavoie
Subject: Re: quote - DART AEROSPACE - Quote 4500553535

Morning Chantal - see below for quote 4500553535

Thank you
Laura

Aviall Toronto
7425 Tranmere Drive
Unit 2
Mississauga, Ontario
L5S 1L4

Phone: 905-676-1695
Fax: 905-676-9046
Email: Toronto@aviall.com

Subject to Prior Sales
Subject to MFG price changes

Any Aviall quote, acknowledgement or acceptance of your purchase order is made subject to Aviall's Terms and Conditions of Sale. You agree that Aviall's Terms and Conditions of Sale replace and supersede your proposed terms and conditions for all purposes and your acceptance of such terms is evidenced by you continuing to go forward with this order after receipt of this stamped notice. Go to www.aviall.com and click on Terms and Conditions for a copy of such terms.

| | |
|----------|---|
| From: | Chantal Lavoie <clavoie@dartaero.com> |
| To: | Toronto Inbound Queue/Aviall <toronto@aviall.com> |
| Date: | 03/30/2016 07:41 AM |
| Subject: | quote - DART AEROSPACE |

Good morning,
Please advise price and delivery on item.

156001-8D-0102 x 5 pcs hose 91.69 each delivery 2-3 days after order
Thanks
Chantal

Chantal Lavoie
Purchasing Coordinator

DART AEROSPACE
T 1 613 632-5200
F 1 613 632-1053
E clavoie@dartaero.com
1 800 556- 4166
www.dartaerospace.com



PACKING LIST



DELIVERY NUMBER: 8002955793

ROUTE: US FedEx International Priority

PAGE:1 of 1
DATE:05APR16
TIME:17:38:42
EMP:00000000ORD TYP: ZOR 169
CURRENCY:USD
TERMS:Net 30CUSTOMER PO:31868
ORDER NUMBER:1002043549
ORDER DATE:05APR16B 10003952
I DART AEROSPACE LTD
L 1270 ABERDEEN STREET
L HAWKESBURY ON K6A 1K7
T CANADA
OS 10003952
H DART AEROSPACE LTD
I 1270 ABERDEEN STREET
P HAWKESBURY ON K6A 1K7
T CANADA
OS 1000
H AVIALL CENTRAL WAREHOUSE
I DALLAS CDC
P 2750 REGENT BLVD
F DFW AIRPORT TX 75261-9048
R USA
O M

| LINE | PO LINE | MFG | ITEM DESCRIPTION | ORDER QUANTITY | SHIP QUANTITY | QUANTITY BACK ORDER | UOM | LIST PRICE | CUSTOMER PRICE | EXTENDED CUSTOMER PRICE |
|-------|---------|-----|---|----------------|---------------|---------------------|-----|------------|----------------|-------------------------|
| 00010 | 0 | 29 | CR3242-4-02 RIVET: BLIND,FLUSH HD,100PK | 1 | 1 | 0 | PAK | 73.35 | 29.83 | 29.83 |
| 00020 | 0 | 5N | BATCH 7364181273 PS890B2PT KIT: SEALANT,FUEL TANK,PT BATCH 7364189074 Exp Date:01DEC16 | 12 | 12 | 0 | EA | 128.66 | 64.05 | 768.60 |

16/13/16
SL

This is not an Invoice.
For payment processing, please refer to Invoice.

The recipient of these goods agrees to comply with all export regulations governing the transfer, sale, lease, or use of these goods.
Diversion contrary to U.S. Law is prohibited.

CERTIFICATE OF CONFORMANCE

It is hereby certified that Aviall Services, Inc., is an approved distributor and meets all requirements of ISO9001, AS9100, AS9120 and AC 00-56 at 2750 Regent Blvd. DFW Airport, Texas. The products, articles or parts referenced on this document are in new or overhauled condition and were purchased from an approved source (FAA, EASA, TCCA, Mil Spec or Commercial). The Original Manufacturers' Certifications are maintained on file at our central office location, and copies are available upon request or at Aviall.com. For overhauled or repaired products, articles or parts, the original FAA 8130-3 / EASA Form 1 (Return to Service) or Yellow Tag, from the FAA/JAA/EASA approved Air Agency are attached to the component.

JR Hofmann, Director, Global Quality

05APR16
Date

DISCOUNT TERMS APPLY ONLY TO SUB TOTAL. ALL
RETURNED MERCHANDISE SUBJECT TO HANDLING
FEE.
THIS IS TO CERTIFY THAT AVIALL HAS COMPLIED WITH
THE PROVISIONS OF THE FAIR LABOR ACT OF 1938
AMENDED.

CUSTOMER COPY



A BOEING COMPANY

Commercial Invoice

AVIALL SERVICES INC
2750 REGENT BLVD
DFW AIRPORT TX 75261
USA

| | |
|--------------------|---|
| Tracking Number | Commercial Invoice Number 9303641207 |
| Incoterms | Ship Date |
| EXW Shipping Point | 05 April, 2016 |

Government Transaction Number

NOEEI FTR 30.36

Delivery Number

8002955793

| | | | | | | | |
|--|----------|---|----------|--|----------|---|--------|
| Sold To DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA | 10003952 | Ultimate Consignee DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA | 10003952 | Ship To DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA | 10003952 | Freight Forwarder FEDEX FEDEX NATIONAL LTL INC PO BOX 94515 PALATINE IL 60094-4515 USA Tax Number: 20-4734803 | 400010 |
|--|----------|---|----------|--|----------|---|--------|

Comments:

| Item | Part Number & Description | Country of Origin | Quantity | UOM | Unit Value USD | Extended Value USD |
|------|---|-------------------|----------|-----|-------------------|-----------------------|
| 20 | CR3242-4-02 - RIVET: BLIND,FLUSH HD,100PK Harmonized Tariff: 8308200000 Export Classification: 9A991.d Authorization: NLRAT_APR_2016 Sales Order: 1002043549 PO: 31868 Batch Number: 7364181273 | US | 1 | PAC | 29.83 | 29.83 |
| 30 | PS890B2PT - KIT: SEALANT,FUEL TANK,PT Harmonized Tariff: 3214100020 Export Classification: EAR99 Authorization: NLRAT_APR_2016 Sales Order: 1002043549 PO: 31868 Batch Number: 7364189074 | US | 12 | EA | 64.05 | 768.60 |



A BOEING COMPANY

Commercial Invoice

| | |
|-----------------|---------------------------|
| Delivery Number | Commercial Invoice Number |
| 8002955793 | 9303641207 |

| Item | Part Number & Description | Country of Origin | Quantity | UOM | Unit Price | Extended Value |
|------|---------------------------|-------------------|----------|-----|------------|----------------|
| | | | | | USD | USD |

| | |
|-----------------|--------|
| Gross Value | 798.43 |
| Add on Charges | |
| Tax Value | |
| Freight Charges | |
| Total Net Value | 798.43 |

**FOR CUSTOMS PURPOSES ONLY
NOT A BILLING INVOICE**

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US laws is prohibited.

SAFETY DATA SHEET



Date of issue/Date of revision 24 February 2015
Version 3.02

Section 1. Identification

Product name : PS 890 B 2 Part A
Product code : PS 890 B 2 Part A
Other means of identification : Not available.
Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications.
Use of the substance/ mixture : Sealants
Uses advised against : Not applicable.

Supplier : PPG Aerospace PRC-DeSoto
12780 San Fernando Road
Sylmar, CA 91342
Phone: 818 362 6711

Emergency telephone number : (412) 434-4515 (U.S.)
(514) 645-1320 (Canada)
01-800-00-21-400 (Mexico)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture : ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION (Fertility) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 9.5%

GHS label elements

Hazard pictograms :



Product code **PS 890 B 2 Part A**

Date of issue **24 February 2015** - Version **3.02**

Product name **PS 890 B 2 Part A**

Section 2. Hazards identification

Signal word : Warning

Hazard statements : Harmful if swallowed or if inhaled.
May cause an allergic skin reaction.
Suspected of damaging fertility.
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : Sanding and grinding dusts may be harmful if inhaled. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

Hazards not otherwise classified : Oxidising potential : Contact with combustible material may cause fire. Keep away from clothing, incompatible materials and combustible materials. This material increases the risk of fire and may aid combustion. Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product name : PS 890 B 2 Part A

| Ingredient name | % | CAS number |
|---|-----------|------------|
| manganese dioxide | 30 - 60 | 1313-13-9 |
| Terphenyl, hydrogenated | 10 - 30 | 61788-32-7 |
| Zeolites | 5 - 10 | 1318-02-1 |
| Polyphenyls, quater- and higher, partially hydrogenated | 3 - 7 | 68956-74-1 |
| Talc, not containing asbestiform fibres | 1 - 5 | 14807-96-6 |
| carbon black, respirable powder | 1 - 5 | 1333-86-4 |
| magnesium carbonate | 1 - 5 | 546-93-0 |
| terphenyl | 1 - 5 | 26140-60-3 |
| 1,3-diphenylguanidine | 0.5 - 1.5 | 102-06-7 |
| bis(pipendinothiocarbonyl) tetrasulphide | 0.5 - 1.5 | 120-54-7 |

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a **POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN** immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

- | | |
|---------------------|--|
| Eye contact | : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention. |
| Inhalation | : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. |
| Skin contact | : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. |
| Ingestion | : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting. |

Most important symptoms/effects, acute and delayed

Potential acute health effects

- | | |
|---------------------|--|
| Eye contact | : No known significant effects or critical hazards. |
| Inhalation | : Harmful if inhaled. |
| Skin contact | : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction. |
| Ingestion | : Harmful if swallowed. |

Over-exposure signs/symptoms

- | | |
|---------------------|---|
| Eye contact | : No specific data. |
| Inhalation | : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
| Skin contact | : Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations |
| Ingestion | : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |

Indication of immediate medical attention and special treatment needed, if necessary

Section 4. First aid measures

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Section 6. Accidental release measures

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Special precautions** : Keep away from combustible materials. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection**Control parameters****Occupational exposure limits**

| Ingredient name | Exposure limits |
|---|--|
| manganese dioxide | ACGIH TLV (United States, 4/2014). TWA: 0.1 mg/m ³ , (as Mn) 8 hours. Form: Inhalable fraction TWA: 0.02 mg/m ³ , (as Mn) 8 hours. Form: Respirable fraction OSHA PEL (United States, 2/2013). CEIL: 5 mg/m ³ , (as Mn) |
| Terphenyl, hydrogenated | ACGIH TLV (United States, 4/2014). TWA: 4.9 mg/m ³ 8 hours. TWA: 0.5 ppm 8 hours |
| Zeolites | ACGIH TLV (United States, 4/2014). TWA: 1 mg/m ³ 8 hours. Form: Respirable fraction |
| Talc, not containing asbestiform fibres | ACGIH TLV (United States, 4/2014). TWA: 2 mg/m ³ 8 hours. Form: Respirable OSHA PEL 23 (United States, 2/2013). TWA: 20 mppcf 8 hours. Form: not containing asbestos |
| carbon black, respirable powder | ACGIH TLV (United States, 4/2014). TWA: 3 mg/m ³ 8 hours. Form: Inhalable fraction OSHA PEL (United States, 2/2013). TWA: 3.5 mg/m ³ 8 hours. |
| magnesium carbonate | OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust |
| terphenyl | ACGIH TLV (United States, 4/2014). C: 5 mg/m ³ C: 0.53 ppm OSHA PEL (United States, 2/2013). CEIL: 9 mg/m ³ CEIL: 1 ppm |

Key to abbreviations

| | |
|-------|---|
| A | = Acceptable Maximum Peak |
| ACGIH | = American Conference of Governmental Industrial Hygienists. |
| C | = Ceiling Limit |
| F | = Fume |
| IPEL | = Internal Permissible Exposure Limit |
| OSHA | = Occupational Safety and Health Administration. |
| R | = Respirable |
| Z | = OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances |

| | |
|------|------------------------------------|
| S | = Potential skin absorption |
| SR | = Respiratory sensitization |
| SS | = Skin sensitization |
| STEL | = Short term Exposure limit values |
| TD | = Total dust |
| TLV | = Threshold Limit Value |
| TWA | = Time Weighted Average |

Consult local authorities for acceptable exposure limits.

Section 8. Exposure controls/personal protection

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety glasses with side shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Gloves** : butyl rubber
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance

| | |
|--|--|
| Physical state | : Liquid. |
| Color | : Black. |
| Odor | : Not available. |
| Odor threshold | : Not available. |
| pH | : Not available. |
| Melting point | : Not available. |
| Boiling point | : 360°C (680°F) |
| Flash point | : Closed cup: Not applicable. |
| Material supports combustion. | : Yes. |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : Not available. |
| Flammability (solid, gas) | : Not available. |
| Lower and upper explosive (flammable) limits | : Not available. |
| Evaporation rate | : Not available. |
| Vapor pressure | : Not available. |
| Vapor density | : Not available. |
| Relative density | : 1.88 |
| Density (lbs / gal) | : 15.69 |
| Solubility | : Insoluble in the following materials: cold water. |
| Partition coefficient: n-octanol/water | : Not available. |
| Viscosity | : Kinematic (40°C (104°F)): >0.21 cm ² /s (>21 cSt) |
| VOC | : Not available. |
| % Solid. (w/w) | : 100 |

Section 10. Stability and reactivity

| | |
|------------------------------------|---|
| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
| Chemical stability | : The product is stable. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8. |
| Incompatible materials | : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids. |

Section 10. Stability and reactivity

Hazardous decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Section 11. Toxicological information**Information on toxicological effects****Acute toxicity**

| Product/ingredient name | Result | Species | Dose | Exposure |
|---------------------------------|-------------|---------|--------------|----------|
| manganese dioxide | LD50 Oral | Rat | 3478 mg/kg | - |
| Terphenyl, hydrogenated | LD50 Oral | Rat | 17500 mg/kg | - |
| Zeolites | LD50 Oral | Rat | >5 g/kg | - |
| carbon black, respirable powder | LD50 Dermal | Rabbit | >3 g/kg | - |
| | LD50 Oral | Rat | >15400 mg/kg | - |
| magnesium carbonate | LD50 Oral | Rat | 8000 mg/kg | - |
| terphenyl | LD50 Oral | Rat | 1400 mg/kg | - |
| 1,3-diphenylguanidine | LD50 Oral | Rat | 323 mg/kg | - |

Conclusion/Summary : There are no data available on the mixture itself.

Irritation/Corrosion**Conclusion/Summary**

Skin : There are no data available on the mixture itself.

Eyes : There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

Sensitization**Conclusion/Summary**

Skin : There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

Mutagenicity

Conclusion/Summary : There are no data available on the mixture itself.

Carcinogenicity

Conclusion/Summary : There are no data available on the mixture itself.

Classification

| Product/ingredient name | OSHA | IARC | NTP |
|---------------------------------|------|------|-----|
| Zeolites | - | 3 | - |
| carbon black, respirable powder | - | 2B | - |

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

Reproductive toxicity

Conclusion/Summary : There are no data available on the mixture itself.

Teratogenicity

Section 11. Toxicological information

Conclusion/Summary : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

| Name | Category |
|---|------------|
| Zeolites | Category 3 |
| Talc, not containing asbestiform fibres | Category 3 |
| 1,3-diphenylguanidine | Category 3 |

Specific target organ toxicity (repeated exposure)

| Name | Category |
|-------------------|------------|
| manganese dioxide | Category 2 |

Target organs : Contains material which causes damage to the following organs: lungs, skin, central nervous system (CNS).
Contains material which may cause damage to the following organs: blood, kidneys, the nervous system, liver, spleen, lymphatic system, cardiovascular system, upper respiratory tract, bone marrow, eye, lens or cornea.

Aspiration hazard

Not available.

Information on the likely routes of exposure**Potential acute health effects**

Eye contact : No known significant effects or critical hazards.
Inhalation : Harmful if inhaled.
Skin contact : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion : Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact : No specific data.
Inhalation : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
Skin contact : Adverse symptoms may include the following:
irritation
redness
dryness
cracking
reduced fetal weight
increase in fetal deaths
skeletal malformations
Ingestion : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Section 11. Toxicological information

Conclusion/Summary : There are no data available on the mixture itself. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

Potential immediate effects : There are no data available on the mixture itself.

Potential delayed effects : There are no data available on the mixture itself.

Long term exposure

Potential immediate effects : There are no data available on the mixture itself.

Potential delayed effects : There are no data available on the mixture itself.

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

| Route | ATE value |
|------------------------------|--------------|
| Oral | 1099.7 mg/kg |
| Inhalation (gases) | 10532.1 ppm |
| Inhalation (vapors) | 25.75 mg/l |
| Inhalation (dusts and mists) | 3.511 mg/l |

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product code **PS 890 B 2 Part A**Date of issue **24 February 2015** Version **3.02**Product name **PS 890 B 2 Part A****Section 12. Ecological information**

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---|--------------------|----------------|------------|
| 1,3-diphenylguanidine bis(piperidinothiocarbonyl) tetrasulphide | 1.69 2.8 | 19.95 16.88 | low low |

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: **HANDLING AND STORAGE** and Section 8: **EXPOSURE CONTROLS/PERSONAL PROTECTION** for additional handling information and protection of employees. Section 6. **Accidental release measures**

14. Transport information

| | DOT | IMDG | IATA |
|------------------------------------|-----------------|-----------------|-----------------|
| UN number | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name | - | - | - |
| Transport hazard class (es) | - | - | - |
| Packing group | - | - | - |
| Environmental hazards | No. | No. | No. |
| Marine pollutant substances | Not applicable. | Not applicable. | Not applicable. |

Additional information

DOT : None identified.

IMDG : None identified.

IATA : None identified.

Product code **PS 890 B 2 Part A**

Date of issue **24 February 2015** Version **3.02**

Product name **PS 890 B 2 Part A**

14. Transport information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

United States inventory (TSCA 8b) : All components are listed or exempted.
Australia inventory (AICS) : All components are listed or exempted.
Canada inventory (DSL) : All components are listed or exempted.
China inventory (IECSC) : All components are listed or exempted.
Europe inventory (REACH) : Please contact your supplier for information on the inventory status of this material.
Japan inventory (ENCS) : All components are listed or exempted.
Korea inventory (KECI) : All components are listed or exempted.
New Zealand (NZIoC) : All components are listed or exempted.
Philippines inventory (PICCS) : All components are listed or exempted.

United States

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification : Immediate (acute) health hazard
Delayed (chronic) health hazard

Composition/information on ingredients

| Name | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| manganese dioxide | No. | No. | No. | Yes. | Yes. |
| Zeolites | No. | No. | No. | Yes. | No. |
| Polyphenyls, quater- and higher, partially hydrogenated | No. | No. | No. | Yes. | No. |
| Talc, not containing asbestiform fibres | No. | No. | No. | Yes. | No. |
| carbon black, respirable powder | Yes. | No. | No. | No. | Yes. |
| terphenyl | No. | No. | No. | Yes. | No. |
| 1,3-diphenylguanidine | Yes. | No. | No. | Yes. | Yes. |
| bis(piperidinothiocarbonyl) tetrasulphide | Yes. | No. | No. | Yes. | No. |

SARA 313

| | | | |
|------------------------------|----------------------|-------------------|----------------------|
| | <u>Chemical name</u> | <u>CAS number</u> | <u>Concentration</u> |
| Supplier notification | : manganese dioxide | 1313-13-9 | 30 - 60 |

Product code **PS 890 B 2 Part A**

Date of issue **24 February 2015** Version **3.02**

Product name **PS 890 B 2 Part A**

Section 15. Regulatory information

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the **Environmental Data Sheet** for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 3 * Flammability : 0 Physical hazards : 1

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-8888.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 3 Flammability : 0 Instability : 1

Date of previous issue : 1/8/2015.

Organization that prepared the MSDS : EHS

Key to abbreviations

: ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

☑ Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

SAFETY DATA SHEET



Date of issue/Date of revision 20 November 2014
Version 2.01

Section 1. Identification

Product name : PS 890 B 2 Part B
Product code : PS 890 B 2 Part B
Other means of identification : Not available.
Product type : Solid.

Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications.
Use of the substance/ mixture : Sealants
Uses advised against : Not applicable.

Supplier : PPG Aerospace PRC-DeSoto
12780 San Fernando Road
Sylmar, CA 91342
Phone: 818 362 6711

Emergency telephone number : (412) 434-4515 (U.S.)
(514) 645-1320 (Canada)
01-800-00-21-400 (Mexico)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture : SKIN CORROSION/IRRITATION - Category 2
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION (Unborn child) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 9.2%

GHS label elements

Hazard pictograms :



Signal word : Warning

Product code **PS 890 B 2 Part B**

Date of issue **20 November 2014 Version 2.01**

Product name **PS 890 B 2 Part B**

Section 2. Hazards identification

Hazard statements : Causes skin irritation.
Suspected of damaging the unborn child.
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Do not breathe dust. Wash hands thoroughly after handling.

Response : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : **1-component mixtures:** formaldehyde is released during curing. Formaldehyde may cause irreversible effects, is irritating to the mucous membranes and may cause skin sensitization. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

Hazards not otherwise classified : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product name : PS 890 B 2 Part B

| Ingredient name | % | CAS number |
|--|---------|----------------|
| calcium carbonate | 15 - 40 | 471-34-1 |
| proprietary modified polysulfide polymer | 3 - 7 | Not available. |
| toluene | 1 - 5 | 108-88-3 |
| titanium dioxide | 1 - 5 | 13463-67-7 |
| proprietary modified polysulfide polymer | 1 - 5 | Not available. |
| thiram (ISO) | 0.1 - 1 | 137-26-8 |

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a **POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN** immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

- | | |
|---------------------|--|
| Eye contact | : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention. |
| Inhalation | : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. |
| Skin contact | : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. |
| Ingestion | : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting. |

Most Important symptoms/effects, acute and delayed

Potential acute health effects

- | | |
|---------------------|---|
| Eye contact | : Causes serious eye irritation. |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : Causes skin irritation. Defatting to the skin. |
| Ingestion | : Irritating to mouth, throat and stomach. |

Over-exposure signs/symptoms

- | | |
|---------------------|---|
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
| Skin contact | : Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations |
| Ingestion | : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |

Indication of immediate medical attention and special treatment needed, if necessary

- | | |
|----------------------------|---|
| Notes to physician | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : No specific treatment. |

Section 4. First aid measures

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Section 6. Accidental release measures

- Small spill** : Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Special precautions** : If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Section 8. Exposure controls/personal protection

| Ingredient name | Exposure limits |
|--------------------|--|
| calcium carbonate. | ACGIH TLV (United States). TWA: 3 mg/m ³ Form: Respirable TWA: 10 mg/m ³ Form: Total dust OSHA PEL (United States). TWA: 5 mg/m ³ Form: Respirable TWA: 15 mg/m ³ OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust |
| toluene | OSHA PEL Z2 (United States, 2/2013). AMP: 500 ppm 10 minutes. CELL: 300 ppm TWA: 200 ppm 8 hours. ACGIH TLV (United States, 4/2014). TWA: 20 ppm 8 hours. |
| titanium dioxide | OSHA PEL (United States, 2/2013). TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 4/2014). TWA: 10 mg/m ³ 8 hours. |
| thiram (ISO) | ACGIH TLV (United States, 4/2014). Skin sensitizer. TWA: 0.05 mg/m ³ 8 hours. Form: Inhalable fraction and vapor OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours. |

Key to abbreviations

| | |
|--|---|
| A = Acceptable Maximum Peak ACGIH = American Conference of Governmental Industrial Hygienists. C = Ceiling Limit F = Fume IPEL = Internal Permissible Exposure Limit OSHA = Occupational Safety and Health Administration. R = Respirable Z = OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances | S = Potential skin absorption SR = Respiratory sensitization SS = Skin sensitization STEL = Short term Exposure limit values TD = Total dust TLV = Threshold Limit Value TWA = Time Weighted Average |
|--|---|

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 8. Exposure controls/personal protection

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance

- Physical state** : Solid.
- Color** : White.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point** : Not available.
- Boiling point** : Not available.
- Flash point** : Closed cup: 67.22°C (153°F)
- Material supports combustion.** : Yes.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Lower: 1%
- Evaporation rate** : Not available.

Product code **PS 890 B 2 Part B**

Date of issue **20 November 2014 Version 2.01**

Product name **PS 890 B 2 Part B**

Section 9. Physical and chemical properties

Vapor pressure : Not available.
Vapor density : Not available.
Relative density : 1.5
Density (lbs / gal) : 12.52
Solubility : Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/water : Not available.
Viscosity : Kinematic (40°C (104°F)): Not applicable.
VOC : 57 g/l

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.
Refer to protective measures listed in sections 7 and 8.

Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:
oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|----------------------------------|---------------------------------|---------|------------------------|----------|
| calcium carbonate toluene | LD50 Oral | Rat | 6450 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | 49 g/m ³ | 4 hours |
| | LC50 Inhalation Vapor | Rat | 8000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 8.39 g/kg | - |
| titanium dioxide thiram (ISO) | LD50 Oral | Rat | 636 mg/kg | - |
| | LD50 Oral | Rat | >10 g/kg | - |
| | LC50 Inhalation Dusts and mists | Rat | 4420 mg/m ³ | 4 hours |
| | LD50 Dermal | Rat | >5000 mg/kg | - |
| | LD50 Oral | Rat | 560 mg/kg | - |

Conclusion/Summary : There are no data available on the mixture itself.

Irritation/Corrosion

Conclusion/Summary

Section 11. Toxicological information

Information on the likely routes of exposure

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. Defatting to the skin.
- Ingestion** : Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
 - pain or irritation
 - watering
 - redness
- Inhalation** : Adverse symptoms may include the following:
 - reduced fetal weight
 - increase in fetal deaths
 - skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
 - irritation
 - redness
 - dryness
 - cracking
 - reduced fetal weight
 - increase in fetal deaths
 - skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
 - reduced fetal weight
 - increase in fetal deaths
 - skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

- Conclusion/Summary** : There are no data available on the mixture itself. **1-component mixtures:** formaldehyde is released during curing. Formaldehyde may cause irreversible effects, is irritating to the mucous membranes and may cause skin sensitization. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

- Potential immediate effects** : There are no data available on the mixture itself.
- Potential delayed effects** : There are no data available on the mixture itself.

Long term exposure

Section 11. Toxicological information

Potential immediate effects : There are no data available on the mixture itself.

Potential delayed effects : There are no data available on the mixture itself.

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : Suspected of damaging the unborn child.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

| Route | ATE value |
|-------|---------------|
| Oral | 16598.2 mg/kg |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|----------------------------------|-----------------------------------|--|----------|
| titanium dioxide thiram (ISO) | Acute LC50 >100 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute EC50 0.04 mg/l Marine water | Algae - Nannochloropsis oculata | 72 hours |
| | Acute LC50 0.02 mg/l Marine water | Crustaceans - Artemia franciscana - Nauplii | 48 hours |
| | Acute LC50 0.01 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |

Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| toluene | - | - | Readily |

Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------|--------------------|------|-----------|
| toluene | 2.73 | 8.32 | low |
| thiram (ISO) | 1.73 | 3.39 | low |

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Product code **PS 890 B 2 Part B**Date of issue **20 November 2014 Version 2.01**Product name **PS 890 B 2 Part B**

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: **HANDLING AND STORAGE** and Section 8: **EXPOSURE CONTROLS/PERSONAL PROTECTION** for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

| | DOT | IMDG | IATA |
|-----------------------------|-------------------------|-----------------|-----------------|
| UN number | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name | - | - | - |
| Transport hazard class(es) | - | - | - |
| Packing group | - | - | - |
| Environmental hazards | No. | No. | No. |
| Marine pollutant substances | Not applicable. | Not applicable. | Not applicable. |
| Product RQ (lbs) | 4412.8 | Not applicable. | Not applicable. |
| RQ substances | (thiram (ISO), toluene) | Not applicable. | Not applicable. |

Additional information

DOT : Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

IMDG : None identified.

IATA : None identified.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Product code **PS 890 B 2 Part B**

Date of issue **20 November 2014 Version 2.01**

Product name **PS 890 B 2 Part B**

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 2 * Flammability : 2 Physical hazards : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-8888.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 2 Flammability : 2 Instability : 0

Date of previous issue : 10/18/2014.

Organization that prepared the MSDS : EHS

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

☐ Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

Certificate of Conformance

Page: 1 of 1

PRC-DeSoto International, Inc.
A PPG Industries Company

Pick Ticket

PRC DESOTO INTL-ASC DALLAS
2750 114th Street, Suite 400
Grand Prairie, TX 75050
UNITED STATES
Phone: 817-640-1067

Fax: 817-640-1058

Order Date: 01/09/16
Cust. No.: DA090713
Terms: net30
Cust. P.O.: 45364007



Site: 3723US

Pack List #: S1191670



CSR: DA525

Transaction Type:
Shipment Terms:

DS-PO#:

Shipvia: SEE BELOW

Remarks: SPEC-AVIALL/ROJEAN 972-586-1314 KC

Sold To: DA090713

AVIALL SERVICES, INC.
P.O. BOX 619048
DALLAS, TX 75261-9048
UNITED STATES

ITEM PS890B2PT=5N



BATCH 7364189074



AMAY
02/15/16

| Line | Qty Ordered | UM | Description | Req Date | Due Date | Promise Date | Qty to Ship | Qty Picked |
|------|-------------|----|-------------|----------|----------|--------------|-------------|------------|
|------|-------------|----|-------------|----------|----------|--------------|-------------|------------|

NEVER ADD FRT TO INVOICE, MUST SHIP COLLECT
FEDEX GROUND COLLECT ACCT #123985630
IF 150 LBS OR MORE FEDEX FREIGHT COLLECT (ACCT# 532626056)
DO NOT SHIP PARTIAL LINES! *** MSDS REQUIRED WITH EACH SHIPMENT ***
MUST HAVE 75% SHELF LIFE.
EDGE PROTECTORS REQUIRED
LINE 30, 40, & 50 PRICE SUBJECT TO CHANGE

| | | | | | | | | |
|----|-----|----|---|----------|----------|----------|--|--|
| 20 | 384 | EA | 0890B002CA012PTAV PRC STANDARD PS 890 B 2 PT KIT SPEC: PRC STD POLYSULFIDE REV.ORG Customer Item: PS890B2PT=5N Lot No: 798580-02 *Location: STOCK Expires After: 11/16 In compliance with the chemical registration laws of UNITED STATES | 02/09/16 | 02/09/16 | 02/09/16 | | |
|----|-----|----|---|----------|----------|----------|--|--|

DOM OR DOP: 02.16

EXP DATE: 11.16

SHELF LIFE: 9 MONTHS

384

384

018920

Shipped by

Date

2/10/16

PPG Aerospace/PRC DeSoto International certifies that the above material has been manufactured, tested and conforms to all requirements in accordance with applicable specifications. All test data pertaining to batch acceptance requirements defined by the specification for this material is on file and available for inspection on request. For Non-US PPG Customers, we can only offer Technical Data/Test Reports for any ITAR restricted specifications with valid US export authorization.

SH6

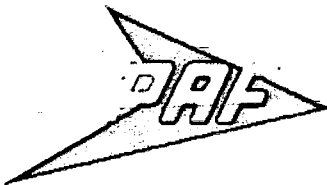
QC29

Quality
Control

SHIPPERS LETTER OF INSTRUCTION

| | | | | | | |
|--|----------------|--|--|----------------|-----------|--------|
| SHIPPER REF# | DATE | OTHER MARKS AND NUMBERS | PARTIES TO TRANSACTION | | | |
| 8002954753 | 04/05/2016 | | <input type="checkbox"/> Related <input checked="" type="checkbox"/> Unrelated | | | |
| SHIPPER: U.S. PRINCIPAL PARTY IN INTEREST (USPPI) AVIALL CENTRAL WAREHOUSE 2750 REGENT BLVD DFW AIRPORT 75261-9048 TX US | | SOLD-TO/FOREIGN PRINCIPAL PARTY IN INTEREST (FPPI) EVERGREEN(EGAT) AVIATION TECH C CKS AIRPORT TAOYUAN 337 TW | | | | |
| USPPI EIN | | Shipping Account Number | 400010 | | | |
| SHIP TO (Complete Name and address) EVERGREEN AVIATION TECH CORP C/O ROUND THE WORLD LOGISTICS 1440 FRANCISCO ST TORRANCE 90501-1313 CA US | | FORWARDING AGENT FEDEX FEDEX NATIONAL LTL INC PO BOX 94515 PALATINE 60094-4515 IL | | | | |
| Routed Export Transaction <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO USPPI FILLING EEI <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO AES ITN: ROUTED TRANSACTION | | BIS/DDTC LICENCE No: NLRAT Hazardous Material <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | Incoterms | | |
| POINT(STATE) OF ORIGIN or FTZ NO: | | US | COUNTRY OF ULTIMATE DESTINATION: US | | | |
| Additional Handling Instructions | | | | | | |
| <input type="checkbox"/> Dangerous Goods per attached Shipper's Declaration <input type="checkbox"/> Non-Regulated | | | | | | |
| <input type="checkbox"/> Shipment intended for Ocean Transportation. Not authorized for Air . <input type="checkbox"/> Shipment intended for Air Transportation. <input type="checkbox"/> Shipment intended for Ground Transportation. Not Authorized for Air. | | | | | | |
| <input type="checkbox"/> Cargo Aircraft only <input type="checkbox"/> Authorized for Air and Ocean | | | | | | |
| Nature and Quantity of Goods | | | | | | |
| | | | | | | |
| CLASSIFICATION AND LICENSING INFORMATION | | | | | | |
| Information provided on this manifest including the first 6 digits of the HTS/Schedule B may also be used to fulfill destination country reporting requirement | | | | | | |
| D/F/M | Schedule B/HTS | Commodity Description | Qty | Weight (Kilos) | ECCN/USML | VALUES |
| D - US | 8411917010 | Aircraft parts and components | 1.000 | 0.420 | 9A991.d | 431.17 |
| | | | | | | |
| Cargo items tendered for air transportation are authorized and subject to inspection, aviation security controls by air carriers and, when appropriate, other government regulations. Copies of all relevant shipping documents showing the cargo#s consignee, consignor, description and other relevant data will be retained on file. All Export Shipments are authorized for inspection by Customs and Border Protection and/or Office of Export Enforcement. | | | | | | |
| SHIPMENT VALUE FOR CUSTOMS: | | | | \$ 431.17 | | |
| Commerce: These commodities, technology, or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited. | | | | | | |

| | | | | | |
|---|-----------------------|--------------------|--------------|---------------------|---------------------|
| <p>Regarding Routed Export Transactions: Unless otherwise specified it is specifically agreed that customer shall be the foreign principal party in interest and/or that its freight forwarder shall act as customer's agent in such capacity for purposes of the Foreign Trade Regulations or other regulatory purposes, and customer and its freight forwarder are responsible for all routed export transactions documentation, including, but not limited to, the filing of the required Electronic Export Information/Automated Export System records. At AVIALL's request, or its freight forwarder shall provide copies of any export, shipping, or import documentation prepared by customer or its freight forwarder related to sales to customer by AVIALL.</p> | Skids /Cartons | Dimensions | | | Gross Weight |
| | | Length | Width | Height | |
| | 01 | 20.000 | 20.000 | 4.000 | 2.232 |
| | | | | | |
| | | | | | |
| <p>Certify that the statements made and all information contained herein are true and correct. I understand that civil and criminal penalties, including forfeiture and sale, may be imposed for making false or fraudulent statements herein, failing to provide the requested information or for of U.S. laws on exportation (13 U.S.C. Sec. 305: 22 U.S.C. Sec. 401, 18 U.S.C. Sec. 1001, 50 U.S.C. app. 2410)</p> | | | | | |
| | | | | | |
| | | | | | |
| <p>Print Name (Duly authorized officer or employee):</p> | | | | | |
| <p>Signature:</p> | <p>Date:</p> | | | | |
| <p>Confidential Electronic Export Information (or any successor document) wherever located, shall be exempt from public disclosure unless the determines that such exemption would be contrary to the national interest (Title 13, Chapter 9, Section 301 (g))</p> | | | | | |
| | | | | | |
| <p>Carrier Signature:</p> | <p>Date:</p> | Total Skids | 1 | Total Weight | 2.232 |

**PEERLESS AEROSPACE FASTENER CORP.**

141 Executive Blvd., PO Box 710, Farmingdale, NY 11735-0710

Sales (631) 420-8200

Accounting (631) 962-2211

Expediting (631) 962-2214

Fax (631) 420-9617

Quality (631) 962-2217

Email: sales@pafcorp.com


PACKING SLIP

| | |
|----------------|--------------|
| SALES NUMBER | SNYCM5YK |
| INVOICE NUMBER | INY2QW42 |
| INVOICE DATE | 02/01/16 |
| SHIP VIA | FED GROUND |
| WAYBILL | 636358450511 |
| CARTONS | 2 |
| WEIGHT (lbs.) | 70.00 |
| PAGE | 1 of 1 |

SHIP TO:AVIALL CENTRAL WAREHOUSE
2750 REGENT BLVD
DFW AIRPORT
DALLAS, TX 75261**SOLD TO:**AVIALL AEROSPACE HARDWARE
ATT: ACCTS PAYABLE
PO BOX 619048
DALLAS, TX 75261-9048

| | | | | | | | | |
|-------------------------|-----------|----------------|---------|--------------------------------|--|------------|--------------------|--|
| CUSTOMER CODE H62 | | BUYER NORMA | | CUSTOMER PO NUMBER 45350452 | | | FOB FARMINGDALE | |
| SALES REP TIM MILLER | | | | EMAIL TMILLER@PAFCORP.COM | | | TERMS NET 30 | |
| LINE # | ORDER QTY | SHIP QTY | BALANCE | UM | CUSTOMER PART / PAF PART | PRICE (\$) | TOTAL | |
| 10 | 19,400 | 19,400 | 0 | EA | CR3242-4-02 / CR3242-4-2 CHERRYMAX RIVETS MFG: CHERRY LOT: 88109313 MFG: CHERRY LOT: 88103682 DESC: A/C FASTENERS:8803.30.0010 | | | |
| | | 18,900 | | | | | | |
| | | 500 | | | | | | |

ITEM CR3242-4-02=29



BATCH 7364181273

IRAMSEY

ITEM CR3242-4-02=29



BATCH 7364181273

LRAMSEY
02/04/16

Sealed and shipped by

VICTOR ROSALES

Cage: 2G586



The quality system of this facility has been registered to the ISO 9001, AS9100 and AS9120 Standards.

CERTIFICATE OF CONFORMANCE

It is hereby certified that all articles in the above shipment and in the quantities as called for in the above contractor's purchase order are in conformance with the requirements, specifications and drawings applicable to that order.

- Peerless BAE#: BAE/AG/20403/MMA
- Peerless AirbusUK#: 91011
- Applicable Terms and Conditions Document SER-FO-007 (attached and available at www.pafcorp.com) are incorporated as part of this document.
- Country of Origin U.S.A.



By:

Paul Feraca
Quality Assurance Manager

SHI-FO-007 REV.A

AVIALL TRUE CERTIFIED COPY - 04/05/2016 - CHOOER - 7364181273

**CHERRY AEROSPACE**1224 East Warner Avenue
Santa Ana, CA 92707-0157Accredited Chemical Processing
Heat Treating
ISO/IEC 17025
Material Testing Lab**Final Inspection & Test Report**
CherryMax® Rivet**An ISO9001 and AS9100 registered company. OASIS #6111041606**

| | | | | |
|--|-----|-------------|-----|------------------------------------|
| Part Numbers | Rev | Proc. Spec. | Rev | Lot I.D. No.: 88109313 |
| CR3242PR-4-02 | AE | PS-CMR-3000 | R | |
| CR3242-4-02 | AE | PS-CMR-3000 | R | |
| ** See 2nd Page for the Customer Parts | | | | Lot Size: 31,700 |
| | | | | MFG. Date: October 07, 2015 |

ASSEMBLY DATA

| TYPE | ID # | CERT # | MATERIAL | FINISH | LUBE |
|--------|----------|--------|------------------------|-----------------------|--------|
| Rivet | 88097001 | A77457 | QQ-A-430/5056 | MIL-C-5541 CLEAR CL1A | None |
| Stem | 88064578 | A77195 | AMS6322 / 8740ST | QQ-P-416/T2CL2/CAD PL | Par-90 |
| Collar | 00000000 | A77349 | A-286 / AMS 5731, 5737 | Passivate per AMS2700 | None |

W.O. #: 09180218

Final Lube: None

QUALITY CONFORMANCE/ACCEPTANCE RESULTS

| MIN REQ'D SAMPLE SIZE SPECS | INSTALLED SHEAR | | TENSION | | SPINDLE RETENTION | | | DISASSEMBLY |
|-----------------------------------|-----------------|-----|---------|-----|-------------------|-----|-----|-------------|
| | 480 | | 345 | | 125 | | 150 | 10 |
| | 8 | 5 | 8 | 5 | 5 | 8 | 5 | 5 |
| | C-N-M | B | C-N-M | B | C-N-M | M | B | C-N-M-B |
| RESULTS | 973 | 973 | 433 | 433 | 293 | 231 | 293 | 27 |
| | 960 | 960 | 432 | 432 | 269 | 235 | 269 | 21 |
| | 972 | 972 | 426 | 426 | 279 | 227 | 279 | 25 |
| | 981 | 981 | 425 | 425 | 257 | 245 | 257 | 35 |
| | 950 | 950 | 436 | 436 | 247 | 245 | 247 | 25 |
| C=CR N=NAS | 953 | | 425 | | | 255 | | |
| M=MIL B=BAC | 956 | | 429 | | | 228 | | |
| LOAD VALUES | 959 | | 418 | | | 235 | | |
| IN POUND | | | | | | | | |

PCS.ITEMSTATUSPCS.ITEMSTATUS20

EXAMINATION

PASS

20

INSTALLATION (Min and Max Grips)

PASS

**Comments:**

Blind Fastener

Tr. Rev: 3

Rev. Date: 11/23/2015

Inspector

S Nguyen

Q Code

V00



The parts contained in this shipment have been manufactured and inspected in accordance with TSO-C148. The conditions and tests required for TSO approval of this article are minimum performance standards. Aircraft fasteners approved under this TSO are not necessarily interchangeable with other aircraft fasteners approved under this TSO. Fasteners of similar dimensional properties may have widely varying performance and metallurgical properties. Substitution of parts may only be done if acceptable to or approved by the Administrator.

This test report shall not be reproduced except in full, without the written approval of the laboratory.

The recording of false, fictitious, or fraudulent statement or entries on the certificate may be punished as a felony under Federal law.

Form No. 1141-10-75 Rev. F 07/15/10 CR10-0832

Page 1 of 2

AVIALL - TRUE CERTIFIED COPY - 04/05/2016 - CHOOOPER - 7364181273



CHERRY[®] AEROSPACE

373 Warner Avenue, Santa Ana, CA 92707

1224 East Warner Avenue
Santa Ana, CA 92707-0157



Chemical Processing
Heat Treating
ISO/IEC 17025
Material Testing Lab

Final Inspection & Test Report CherryMax[®] Rivet

An ISO9001 and AS9100 registered company. OASIS #6111041606

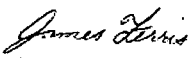
Customer Parts List

| | |
|---------------|----------|
| Lot I.D. No.: | 88109313 |
| Rev: | 3 |

| <u>Customer Part Number</u> | <u>Rev</u> | <u>Proc. Spec.</u> | <u>Rev</u> |
|-----------------------------|------------|--------------------|------------|
| 132272A402 | F | NAS1687 | 3 |
| BACR15FP4B2R | AB | NAS1740 | 9 |
| NAS9305B-4-02 | 6 | NAS1686 | 4 |
| NAS9305BNS-4-02 | 6 | NAS1686 | 4 |
| M7885/7-4-02 | C1 | MIL-R-7885 | D2 |
| MBBN3013L3602 | 01/06 | MBBN3015 | 12.2003 |
| ASNA0077A402X | P | BAS1686 | 4 |

Parts delivered in accordance with the standard amendments as agreed by Cherry/EADS.



| | | | | | | |
|--|-----------------|---|--------------|---|---|--------------------------------|
| 1. Approving Civil Aviation Authority/Country: FAA/United States | | 2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG | | | 3. Form Tracking Number: 7364181273 1000000020099110 | |
| 4. Organization Name and Address: AVIALL SERVICES INC. 2750 REGENT BLVD DFW AIRPORT, TX 75261-9048 | | | | | 5. Work Order/Contract/Invoice Number: 31868 | |
| 6. Item: | 7. Description: | 8. Part Number: | 9. Quantity: | 10. Serial Number: | 11. Status/Work: | |
| 1. | A/C FASTENERS | CR3242-4-02 | 1 | N/A | NEW | |
| 12. Remarks: <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">CA</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">COL</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">1414</div> <div style="text-align: right; margin-top: 20px;"> B/N:88109313 1 PACK=100 PCS </div> TSO-C148 EXPORT AIRWORTHINESS APPROVAL EXPORT-THIS ARTICLE MEETS THE SPECIAL REQUIREMENT OF CANADA THE PRODUCT(S)/ARTICLE(S) SHIPPED UNDER THIS APPROVAL WERE PRODUCED BY CHERRY AEROSPACE. | | | | | | |
| 13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12. | | | | 14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. | | |
| 13b. Authorized Signature:  | | 13c. Approval/Authorization No.: 726425056 | | 14b. Authorized Signature: | | 14c. Approval/Certificate No.: |
| 13d. Name (Typed or Printed): JAMES FERRIS | | 13e. Date (dd/mmm/yyyy): 05 APR 2016 | | 14d. Name (Typed or Printed): | | 14e. Date (dd/mmm/yyyy): |
| User/Installer Responsibilities | | | | | | |
| It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)propeller(s)/ article(s) from the airworthiness authority of the country specified in the Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown. | | | | | | |